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 Miller, Charles E.
 Mezes, Peter
 Hahne, William

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<120> COMPOSITIONS AND METHODS OF USE FOR A FIBROBLAST GROWTH FACTOR

<130> Cura-57 SNP

<140> ***Enter Current Patent Application ID***

<141> 2004-11-3

<150> 10/702,126

<151> 2003-11-4

<160> 24

<170> CuraSeqList version 0.1

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 <213> Homo sapiens

<400> 15
 Gly Phe Leu Gly Gly Leu Glu Gly Leu Gly Gln Gln Val Gly Ser His
 1 5 10 15
 Phe Leu Leu Pro Pro Ala Gly Glu Arg Pro Pro Leu Leu Gly Glu Arg
 20 25 30
 Arg Ser Ala Ala Glu Arg Ser Ala Arg Gly Gly Pro Gly Ala Ala Gln
 35 40 45
 Leu Ala His Leu His Gly Ile Leu Arg Arg Arg Gln Leu Tyr Cys Arg
 50 55 60
 Thr Gly Phe His Leu Gln Ile Leu Pro Asp Gly Ser Val Gln Gly Thr
 65 70 75 80
 Arg Gln Asp His Ser Leu Phe Gly Ile Leu Glu Phe Ile Ser Val Ala
 85 90 95
 Val Gly Leu Val Ser Ile Arg Gly Val Asp Ser Gly Leu Tyr Leu Gly
 100 105 110
 Met Asn Asp Lys Gly Glu Leu Tyr Gly Ser Glu Lys Leu Thr Ser Glu
 115 120 125
 Cys Ile Phe Arg Glu Gln Phe Glu Glu Asn Trp Tyr Asn Thr Tyr Ser

130 135 140

Ser Asn Ile Tyr Lys His Gly Asp Thr Gly Arg Arg Tyr Phe Val Ala
 145 150 155 160

Leu Asn Lys Asp Gly Thr Pro Arg Asp Gly Ala Arg Ser Lys Arg His
 165 170 175

Gln Lys Phe Thr His Phe Leu Pro Arg Pro Val Asp Pro Glu Arg Val
 180 185 190

Pro Glu Leu Tyr Lys Asn Leu Leu Met Tyr Thr
 195 200

<210> 16
 <211> 603
 <212> DNA
 <213> Homo sapiens

<220>
 <221> CDS
 <222> (1)..(600)

<400> 16

ggc ggt ctg gag ggt ctg ggt cag cag gtt ggt tct cac ttc ctg ctg 48
 Gly Gly Leu Glu Gly Leu Gly Gln Gln Val Gly Ser His Phe Leu Leu
 1 5 10 15

ccg ccg gct ggt gaa cgt ccg cca ctg ctg ggt gaa cgt cgc tcc gca 96
 Pro Pro Ala Gly Glu Arg Pro Pro Leu Leu Gly Glu Arg Arg Ser Ala
 20 25 30

gct gaa cgc tcc gct cgt ggt ggc ccg ggt gct gct cag ctg gct cac 144
 Ala Glu Arg Ser Ala Arg Gly Gly Pro Gly Ala Ala Gln Leu Ala His
 35 40 45

ctg cat ggt atc ctg cgt cgc cgt cag ctg tac tgc cgt act ggt ttc 192
 Leu His Gly Ile Leu Arg Arg Arg Gln Leu Tyr Cys Arg Thr Gly Phe
 50 55 60

cac ctg cag atc ctg ccg gat ggt tct gtt cag ggt acc cgt cag gac 240
 His Leu Gln Ile Leu Pro Asp Gly Ser Val Gln Gly Thr Arg Gln Asp
 65 70 75 80

cac tct ctg ttc ggt atc ctg gaa ttc atc tct gtt gct gtt ggt ctg 288
 His Ser Leu Phe Gly Ile Leu Glu Phe Ile Ser Val Ala Val Gly Leu
 85 90 95

gtt tct atc cgt ggt gtt gac tct ggc ctg tac ctg ggt atg aac gac 336
 Val Ser Ile Arg Gly Val Asp Ser Gly Leu Tyr Leu Gly Met Asn Asp
 100 105 110

aaa ggc gaa ctg tac ggt tct gaa aaa ctg acc tct gaa tgc atc ttc 384
 Lys Gly Glu Leu Tyr Gly Ser Glu Lys Leu Thr Ser Glu Cys Ile Phe
 115 120 125

cgt gaa cag ttt gaa gag aac tgg tac aac acc tac tct tcc aac atc 432
 Arg Glu Gln Phe Glu Glu Asn Trp Tyr Asn Thr Tyr Ser Ser Asn Ile
 130 135 140

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tac aaa cat ggt gac acc ggc cgt cgc tac ttc gtt gct ctg aac aaa 480
 Tyr Lys His Gly Asp Thr Gly Arg Arg Tyr Phe Val Ala Leu Asn Lys
 145 150 155 160

gac ggt acc ccg cgt gat ggt gct cgt tct aaa cgt cac cag aaa ttc 528
 Asp Gly Thr Pro Arg Asp Gly Ala Arg Ser Lys Arg His Gln Lys Phe
 165 170 175

acc cac ttc ctg ccg cgc cca gtt gac ccg gag cgt gtt cca gaa ctg 576
 Thr His Phe Leu Pro Arg Pro Val Asp Pro Glu Arg Val Pro Glu Leu
 180 185 190

tat aaa aac ctg ctg atg tac acc taa 603
 Tyr Lys Asn Leu Leu Met Tyr Thr
 195 200

<210> 17

<211> 200

<212> PRT

<213> Homo sapiens

<400> 17

Gly Gly Leu Glu Gly Leu Gly Gln Gln Val Gly Ser His Phe Leu Leu
 1 5 10 15

Pro Pro Ala Gly Glu Arg Pro Pro Leu Leu Gly Glu Arg Arg Ser Ala
 20 25 30

Ala Glu Arg Ser Ala Arg Gly Gly Pro Gly Ala Ala Gln Leu Ala His
 35 40 45

Leu His Gly Ile Leu Arg Arg Arg Gln Leu Tyr Cys Arg Thr Gly Phe
 50 55 60

His Leu Gln Ile Leu Pro Asp Gly Ser Val Gln Gly Thr Arg Gln Asp
 65 70 75 80

His Ser Leu Phe Gly Ile Leu Glu Phe Ile Ser Val Ala Val Gly Leu
 85 90 95

Val Ser Ile Arg Gly Val Asp Ser Gly Leu Tyr Leu Gly Met Asn Asp
 100 105 110

Lys Gly Glu Leu Tyr Gly Ser Glu Lys Leu Thr Ser Glu Cys Ile Phe
 115 120 125

Arg Glu Gln Phe Glu Glu Asn Trp Tyr Asn Thr Tyr Ser Ser Asn Ile
 130 135 140

Tyr Lys His Gly Asp Thr Gly Arg Arg Tyr Phe Val Ala Leu Asn Lys
 145 150 155 160

Asp Gly Thr Pro Arg Asp Gly Ala Arg Ser Lys Arg His Gln Lys Phe
 165 170 175

Thr His Phe Leu Pro Arg Pro Val Asp Pro Glu Arg Val Pro Glu Leu
 180 185 190

Tyr Lys Asn Leu Leu Met Tyr Thr
 195 200

<210> 18
 <211> 594
 <212> DNA
 <213> Homo sapiens

<220>
 <221> CDS
 <222> (1) .. (591)

<400> 18
 gag ggt ctg ggt cag cag gtt ggt tct cac ttc ctg ctg ccg ccg gct 48
 Glu Gly Leu Gly Gln Gln Val Gly Ser His Phe Leu Leu Pro Pro Ala
 1 5 10 15
 ggt gaa cgt ccg cca ctg ctg ggt gaa cgt cgc tcc gca gct gaa cgc 96
 Gly Glu Arg Pro Pro Leu Leu Gly Glu Arg Arg Ser Ala Ala Glu Arg
 20 25 30
 tcc gct cgt ggt ggc ccg ggt gct gct cag ctg gct cac ctg cat ggt 144
 Ser Ala Arg Gly Gly Pro Gly Ala Ala Gln Leu Ala His Leu His Gly
 35 40 45
 atc ctg cgt cgc cgt cag ctg tac tgc cgt act ggt ttc cac ctg cag 192
 Ile Leu Arg Arg Arg Gln Leu Tyr Cys Arg Thr Gly Phe His Leu Gln
 50 55 60
 atc ctg ccg gat ggt tct gtt cag ggt acc cgt cag gac cac tct ctg 240
 Ile Leu Pro Asp Gly Ser Val Gln Gly Thr Arg Gln Asp His Ser Leu
 65 70 75 80
 ttc ggt atc ctg gaa ttc atc tct gtt gct gtt ggt ctg gtt tct atc 288
 Phe Gly Ile Leu Glu Phe Ile Ser Val Ala Val Gly Leu Val Ser Ile
 85 90 95
 cgt ggt gtt gac tct ggc ctg tac ctg ggt atg aac gac aaa ggc gaa 336
 Arg Gly Val Asp Ser Gly Leu Tyr Leu Gly Met Asn Asp Lys Gly Glu
 100 105 110
 ctg tac ggt tct gaa aaa ctg acc tct gaa tgc atc ttc cgt gaa cag 384
 Leu Tyr Gly Ser Glu Lys Leu Thr Ser Glu Cys Ile Phe Arg Glu Gln
 115 120 125
 ttt gaa gag aac tgg tac aac acc tac tct tcc aac atc tac aaa cat 432
 Phe Glu Glu Asn Trp Tyr Asn Thr Tyr Ser Ser Asn Ile Tyr Lys His
 130 135 140
 ggt gac acc ggc cgt cgc tac ttc gtt gct ctg aac aaa gac ggt acc 480
 Gly Asp Thr Gly Arg Arg Tyr Phe Val Ala Leu Asn Lys Asp Gly Thr
 145 150 155 160
 ccg cgt gat ggt gct cgt tct aaa cgt cac cag aaa ttc acc cac ttc 528
 Pro Arg Asp Gly Ala Arg Ser Lys Arg His Gln Lys Phe Thr His Phe
 165 170 175
 ctg ccg cgc cca gtt gac ccg gag cgt gtt cca gaa ctg tat aaa aac 576
 Leu Pro Arg Pro Val Asp Pro Glu Arg Val Pro Glu Leu Tyr Lys Asn
 180 185 190
 ctg ctg atg tac acc taa 594

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Leu Leu Met Tyr Thr
195

<210> 19

<211> 197

<212> PRT

<213> Homo sapiens

<400> 19

Glu Gly Leu Gly Gln Gln Val Gly Ser His Phe Leu Leu Pro Pro Ala
1 5 10 15

Gly Glu Arg Pro Pro Leu Leu Gly Glu Arg Arg Ser Ala Ala Glu Arg
20 25 30

Ser Ala Arg Gly Gly Pro Gly Ala Ala Gln Leu Ala His Leu His Gly
35 40 45

Ile Leu Arg Arg Arg Gln Leu Tyr Cys Arg Thr Gly Phe His Leu Gln
50 55 60

Ile Leu Pro Asp Gly Ser Val Gln Gly Thr Arg Gln Asp His Ser Leu
65 70 75 80

Phe Gly Ile Leu Glu Phe Ile Ser Val Ala Val Gly Leu Val Ser Ile
85 90 95

Arg Gly Val Asp Ser Gly Leu Tyr Leu Gly Met Asn Asp Lys Gly Glu
100 105 110

Leu Tyr Gly Ser Glu Lys Leu Thr Ser Glu Cys Ile Phe Arg Glu Gln
115 120 125

Phe Glu Glu Asn Trp Tyr Asn Thr Tyr Ser Ser Asn Ile Tyr Lys His
130 135 140

Gly Asp Thr Gly Arg Arg Tyr Phe Val Ala Leu Asn Lys Asp Gly Thr
145 150 155 160

Pro Arg Asp Gly Ala Arg Ser Lys Arg His Gln Lys Phe Thr His Phe
165 170 175

Leu Pro Arg Pro Val Asp Pro Glu Arg Val Pro Glu Leu Tyr Lys Asn
180 185 190

Leu Leu Met Tyr Thr
195

<210> 20

<211> 567

<212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (1)..(564)

<400> 20

cac ttc ctg ctg ccg ccg gct ggt gaa cgt ccg cca ctg ctg ggt gaa
His Phe Leu Leu Pro Pro Ala Gly Glu Arg Pro Pro Leu Leu Gly Glu

48

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1	5	10	15	
cgt cgc tcc gca gct gaa cgc tcc gct cgt ggt ggc ccg ggt gct gct				96
Arg Arg Ser Ala Ala Glu Arg Ser Ala Arg Gly Gly Pro Gly Ala Ala				
20		25	30	
cag ctg gct cac ctg cat ggt atc ctg cgt cgc cgt cag ctg tac tgc				144
Gln Leu Ala His Leu His Gly Ile Leu Arg Arg Arg Gln Leu Tyr Cys				
35	40	45		
cgt act ggt ttc cac ctg cag atc ctg ccg gat ggt tct gtt cag ggt				192
Arg Thr Gly Phe His Leu Gln Ile Leu Pro Asp Gly Ser Val Gln Gly				
50	55	60		
acc cgt cag gac cac tct ctg ttc ggt atc ctg gaa ttc atc tct gtt				240
Thr Arg Gln Asp His Ser Leu Phe Gly Ile Leu Glu Phe Ile Ser Val				
65	70	75	80	
gct gtt ggt ctg gtt tct atc cgt ggt gtt gac tct ggc ctg tac ctg				288
Ala Val Gly Leu Val Ser Ile Arg Gly Val Asp Ser Gly Leu Tyr Leu				
85	90	95		
ggt atg aac gac aaa ggc gaa ctg tac ggt tct gaa aaa ctg acc tct				336
Gly Met Asn Asp Lys Gly Glu Leu Tyr Gly Ser Glu Lys Leu Thr Ser				
100	105	110		
gaa tgc atc ttc cgt gaa cag ttt gaa gag aac tgg tac aac acc tac				384
Glu Cys Ile Phe Arg Glu Gln Phe Glu Glu Asn Trp Tyr Asn Thr Tyr				
115	120	125		
tct tcc aac atc tac aaa cat ggt gac acc ggc cgt cgc tac ttc gtt				432
Ser Ser Asn Ile Tyr Lys His Gly Asp Thr Gly Arg Arg Tyr Phe Val				
130	135	140		
gct ctg aac aaa gac ggt acc ccg cgt gat ggt gct cgt tct aaa cgt				480
Ala Leu Asn Lys Asp Gly Thr Pro Arg Asp Gly Ala Arg Ser Lys Arg				
145	150	155	160	
cac cag aaa ttc acc cac ttc ctg ccg cgc cca gtt gac ccg gag cgt				528
His Gln Lys Phe Thr His Phe Leu Pro Arg Pro Val Asp Pro Glu Arg				
165	170	175		
ggt cca gaa ctg tat aaa aac ctg ctg atg tac acc taa				567
Val Pro Glu Leu Tyr Lys Asn Leu Leu Met Tyr Thr				
180	185			
<210> 21				
<211> 188				
<212> PRT				
<213> Homo sapiens				
<400> 21				
His Phe Leu Leu Pro Pro Ala Gly Glu Arg Pro Pro Leu Leu Gly Glu				
1	5	10	15	
Arg Arg Ser Ala Ala Glu Arg Ser Ala Arg Gly Gly Pro Gly Ala Ala				
20	25	30		
Gln Leu Ala His Leu His Gly Ile Leu Arg Arg Arg Gln Leu Tyr Cys				
35	40	45		

Arg Thr Gly Phe His Leu Gln Ile Leu Pro Asp Gly Ser Val Gln Gly
 50 55 60

Thr Arg Gln Asp His Ser Leu Phe Gly Ile Leu Glu Phe Ile Ser Val
 65 70 75 80

Ala Val Gly Leu Val Ser Ile Arg Gly Val Asp Ser Gly Leu Tyr Leu
 85 90 95

Gly Met Asn Asp Lys Gly Glu Leu Tyr Gly Ser Glu Lys Leu Thr Ser
 100 105 110

Glu Cys Ile Phe Arg Glu Gln Phe Glu Glu Asn Trp Tyr Asn Thr Tyr
 115 120 125

Ser Ser Asn Ile Tyr Lys His Gly Asp Thr Gly Arg Arg Tyr Phe Val
 130 135 140

Ala Leu Asn Lys Asp Gly Thr Pro Arg Asp Gly Ala Arg Ser Lys Arg
 145 150 155 160

His Gln Lys Phe Thr His Phe Leu Pro Arg Pro Val Asp Pro Glu Arg
 165 170 175

Val Pro Glu Leu Tyr Lys Asn Leu Leu Met Tyr Thr
 180 185

<210> 22

<211> 447

<212> DNA

<213> Homo sapiens

<400> 22

atcctgcgcc gccggcagct ctattgccgc accggcttcc acctgcagat cctgcccgcac 60
 ggcagcgtgc agggcaccgc gcaggaccac agcctcttcg gtatcttggga attcatcagt 120
 gtggcagtg gactggtcag tattagaggt gtggacagtg gtctctatct tggaatgaat 180
 gacaaaggag aactctatgg atcagagaaa cttacttccg aatgcacatt tagggagcag 240
 tttgaagaga actggtataa cacctattca tctaacatat ataaacatgg agacactggc 300
 cgcaggtatt ttgtggcact taacaaagac ggaactccaa gagatggcgc caggtccaag 360
 aggcacaga aatttacaca tttcttacct agaccagtgg atccagaaaa agttccagaa 420
 ttgtacaagg acctactgat gtacact 447

<210> 23

<211> 149

<212> PRT

<213> Homo sapiens

<400> 23

Ile Leu Arg Arg Arg Gln Leu Tyr Cys Arg Thr Gly Phe His Leu Gln
 1 5 10 15

Ile Leu Pro Asp Gly Ser Val Gln Gly Thr Arg Gln Asp His Ser Leu
 20 25 30

Phe Gly Ile Leu Glu Phe Ile Ser Val Ala Val Gly Leu Val Ser Ile
 35 40 45

Arg Gly Val Asp Ser Gly Leu Tyr Leu Gly Met Asn Asp Lys Gly Glu
 50 55 60

Leu Tyr Gly Ser Glu Lys Leu Thr Ser Glu Cys Ile Phe Arg Glu Gln
 65 70 75 80

Phe Glu Glu Asn Trp Tyr Asn Thr Tyr Ser Ser Asn Ile Tyr Lys His
 85 90 95

Gly Asp Thr Gly Arg Arg Tyr Phe Val Ala Leu Asn Lys Asp Gly Thr
 100 105 110

Pro Arg Asp Gly Ala Arg Ser Lys Arg His Gln Lys Phe Thr His Phe
 115 120 125

Leu Pro Arg Pro Val Asp Pro Glu Arg Val Pro Glu Leu Tyr Lys Asn
 130 135 140

Leu Leu Met Tyr Thr
 145

<210> 24

<211> 537

<212> DNA

<213> Homo sapiens

<400> 24

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atggctccct tagccgaagt cgggggcttt ctgggcggcc tggagggctt gggccagccg 60
ggggcagcgc agctggcgca cctgcacggc atcctgcgcc gccggcagct ctattgccgc 120
accggcttcc acctgcagat cctgcccgcg ggcagcgtgc agggcacccg gcaggaccac 180
agcctcttcg gtatcttgga attcatcagt gtggcagtgg gactggtcag tattagaggt 240
gtggacagtg gtctctatct tggaaatgaat gacaaaggag aactctatgg atcagagaaa 300
cttacttccg aatgcatctt tagggagcag tttgaagaga actgggtataa cacctattca 360
tctaacatat ataaacatgg agacactggc cgcagggtatt ttgtggcact taacaaagac 420
ggaactccaa gagatggcgc caggtccaag aggcacacga aatttacaca tttcttacct 480
agaccagtgg atccagaaaag agttccagaa ttgtacaaga acctactgat gtacact 537

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